

COST OF SITES AND IMPROVEMENT OF THE SEVERAL  
NAVY YARDS.

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LETTER

FROM

THE SECRETARY OF THE NAVY,

TRANSMITTING

*A statement of the cost and expenditure for the improvement of the several  
navy yards of the United States.*

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FEBRUARY 15, 1859.—Referred to the Committee on Naval Affairs, and ordered to be printed.

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NAVY DEPARTMENT,  
February 10, 1859.

SIR: I have the honor to acknowledge the receipt of the resolution of the House of Representatives of the 15th ultimo, requesting certain information in relation to the several navy yards, and to transmit herewith a report from the chief of the Bureau of Yards and Docks, to whom the resolution was referred.

I am, sir, very respectfully, your obedient servant,

ISAAC TOUCEY

Hon. JAMES L. ORR,

*Speaker of the House of Representatives.*

## A.

*Statement of the cost of the sites of the several navy yards, and the expenditures for improvements thereon, to the 1st of December, 1858, as far as can be ascertained; as also the cost of magazines and ordnance buildings at the several yards.*

	Cost of sites.	Cost of improvement, including dry docks.	Cost of magazine and ordnance buildings.	Aggregate.
Portsmouth, N. H. ....	\$5,500 00	\$1,925,090 83	\$47,767 50	\$1,978,358 33
Boston .....	40,000 00	3,578,752 26	52,769 60	3,671,521 86
New York .....	325,000 00	5,397,946 25	188,044 22	5,910,990 47
Philadelphia .....	37,000 00	1,493,562 99	30,173 47	1,560,736 46
Washington .....	4,000 00	1,792,136 96	44,108 73	1,846,245 69
Norfolk .....	21,382 50	4,314,401 39	74 530 32	4,410,314 21
Pensacola .....		3,693,919 10	29,141 19	3,723,060 29
Mare Island .....	83,491 00	2,861,257 01	90,898 12	3,035,646 13
Blythe Island .....	130,000 00	-----	-----	130,000 00
Sackett's Harbor .....	4,425 00	21,687 51	-----	26,112 51
	650,798 50	25,078,754 30	557,433 15	26,286,985 95

NOTE.—The magazines at Portsmouth, N. H., and Norfolk were built under appropriations for improvement of those yards, and their cost is embraced in the expenditures for those yards respectively.

B.—A classification of the annual expenditures for improvements of the several navy yards, magazines, and hospitals, since the year 1832, and for "pay of superintendents" and contingent under the cognizance of the Bureau of Yards and Docks since October 1, 1842, soon after the establishment of the bureau.

	NAVY YARD, PORTSMOUTH, NEW HAMPSHIRE				
	Pay of superintendent.	Improvement of yard.	Dry dock, basin, &c.	Magazine.	Contingent, yards and docks.
For the year ending September 30, 1832.....		\$35,099 83			
Do.....do.....1833.....		33,441 05			
Do.....do.....1834.....		27,279 71			
Do.....do.....1835.....		24,897 51			
Do.....do.....1836.....		18,880 17			
Do.....do.....1837.....		110,040 14			
Do.....do.....1838.....		28,164 31			
Do.....do.....1839.....		38,014 58			
Do.....do.....1840.....		16,871 75			
Do.....do.....1841.....		36,992 73			
Do.....do.....1842.....		20,494 07			
From October 1, 1842, to June 30, 1843.....	\$5,721 73	43,325 36			\$9,418 33
For the year ending June 30, 1844.....	5,721 75	32,369 47			14,332 79
Do.....do.....1845.....	7,653 77	21,468 33			8,282 50
Do.....do.....1846.....	7,649 99	11,269 80			3,301 63
Do.....do.....1847.....	7,049 99	9,700 20			3,365 64
Do.....do.....1848.....	7,606 15	32,126 36			13,618 20
Do.....do.....1849.....	7,652 46	48,044 51	\$61,044 93		12,789 10
Do.....do.....1850.....	7,653 87	51,060 68	251,760 32		15,755 52
Do.....do.....1851.....	7,899 99	18,074 07	186,751 03		10,218 19
Do.....do.....1852.....	9,539 98	32,155 55	98,783 30		13,132 13
Do.....do.....1853.....	9,611 71	31,281 28	149,889 91		18,708 79
Do.....do.....1854.....	9,430 13	70,140 76	2,142 75		20,324 25
Do.....do.....1855.....	11,192 55	58,771 95	4,481 82		26,760 75
Do.....do.....1856.....	12,056 50	38,828 24	2,545 80	\$499 17	28,428 69
Do.....do.....1857.....	12,046 00	25,549 73	2,994 39	19,107 61	17,001 11
Do.....do.....1858.....	11,761 33	94,018 94	4,808 59	23,515 61	38,096 91
	140,247 90	1,008,361 08	765,202 84	43,122 39	253,534 53

# STATEMENT—Continued.

4

COST OF SITES AND IMPROVEMENT OF NAVY YARDS.

		NAVY YARD, BOSTON.					
		Pay of superintendents.	Improvement of yard.	Dry dock.	Magazine.	Hospital.	Contingent. Yards and docks.
For the year ending September 30, 1832			\$25,852 73	\$107,326 80			
Do.....do.....1833			72,529 70	63,422 83		\$15,497 57	
Do.....do.....1834			85,827 58			18,261 87	
Do.....do.....1835			91,637 41		\$10,166 30	11,147 39	
Do.....do.....1836			87,032 44		6,823 53	7,824 10	
Do.....do.....1837			231,761 55		7,136 71	11,516 07	
Do.....do.....1838			56,687 93		885 38	545 62	
Do.....do.....1839			55,894 95			1,611 96	
Do.....do.....1840			19,855 22			87 39	
Do.....do.....1841			30,870 22			2,310 39	
Do.....do.....1842			31,019 99			801 92	
From October 1, 1842, to June 30, 1843	\$10,480 00	30,261 31				5,754 85	\$18,028 54
For the year ending June 30, 1844	7,918 56	44,486 40			384 69	63 24	35,202 85
Do.....do.....1845	11,180 00	27,762 96			17 84	46 92	34,351 68
Do.....do.....1846	11,180 94	32,215 42			160 56	2,506 10	29,131 61
Do.....do.....1847	11,020 00	40,806 63			624 86	3,543 77	36,265 62
Do.....do.....1848	10,700 00	97,226 75			44 83	3,592 77	63,843 60
Do.....do.....1849	10,700 00	81,556 56			397 80	1,801 95	57,651 93
Do.....do.....1850	10,700 00	115,567 93			332 49	1,411 81	52,835 07
Do.....do.....1851	10,700 00	118,863 19			780 86	1,352 34	56,493 45
Do.....do.....1852	11,000 00	79,637 41			173 10	703 32	50,768 40
Do.....do.....1853	11,135 01	29,883 37			34 05	653 70	43,316 89
Do.....do.....1854	13,220 57	46,689 88			705 47	1,658 95	44,664 02
Do.....do.....1855	13,722 05	84,962 14			904 23	1,227 29	43,136 52
Do.....do.....1856	14,477 31	171,007 88			13,165 55	6,019 61	43,494 59
Do.....do.....1857	14,815 92	211,923 89			5,650 57	7,922 08	60,976 46
Do.....do.....1858	14,815 94	394,236 87			2,353 03	11,489 63	52,143 40
	187,766 30	2,396,058 31		170,749 63	50,741 85	119,352 61	722,304 63

# STATEMENT—Continued.

## NAVY YARD, NEW YORK.

	Pay of superintendents.	Improvement of yard.	Dry dock.	Magazine.	Hospital.	Contingent. Yards and docks.
For the year ending September 30, 1832		\$46,339 95				
Do.....do.....1833		77,503 21				
Do.....do.....1834		52,384 90				
Do.....do.....1835		25,926 47		\$12,417 22	\$62,674 35	
Do.....do.....1836		44,890 15		12,402 20		
Do.....do.....1837		108,020 31		3,492 71	24,238 44	
Do.....do.....1838		26,012 20		2,335 24	57,591 62	
Do.....do.....1839		50,817 45		2,199 21	70,695 79	
Do.....do.....1840		7,885 40		123 83	5,127 06	
Do.....do.....1841		6,553 22		121 22		
Do.....do.....1842		3,627 83	\$35,264 75		9,638 70	
From October 1, 1842, to June 30, 1843	\$11,183 36	31,086 11			4,231 20	\$24,189 64
For the year ending June 30, 1844	9,016 94	38,171 83			8,154 82	31,150 00
Do.....do.....1845	10,701 38	46,645 29	123,628 14	233 41	10,841 67	35,850 00
Do.....do.....1846	10,691 79	50,912 20	159,448 61	170 05	14,210 67	23,755 67
Do.....do.....1847	10,170 20	65,411 75	278,308 74	226 28	23,058 59	14,495 51
Do.....do.....1848	10,604 16	46,332 32	289,563 07	919 98	19,187 04	27,210 59
Do.....do.....1849	10,700 00	363,801 13	297,889 75	97 87	11,474 79	32,648 51
Do.....do.....1850	10,699 97	102,615 98	522,948 51	453 32	10,912 04	39,162 81
Do.....do.....1851	10,699 99	24,869 70	366,933 61	278 06	1,610 92	35,136 63
Do.....do.....1852	11,000 00	51,191 49	79,961 12	64 02	6,281 62	35,184 80
Do.....do.....1853	11,124 92	179,842 57	14,241 94	548 12	13,093 91	48,085 44
Do.....do.....1854	14,265 14	240,151 34		2,552 29	32,040 64	46,150 81
Do.....do.....1855	14,670 00	240,586 81		24,224 26	2,688 12	48,076 66
Do.....do.....1856	14,702 67	330,325 80		63,812 74	11,308 81	68,435 30
Do.....do.....1857	15,845 27	321,459 36		24,216 30	11,700 21	66,715 12
Do.....do.....1858	16,606 30	391,535 27		35,485 57	24,223 73	63,526 98
	192,683 09	2,974,900 04	2,168,188 24	186,363 90	434,984 74	639,774 47

\* The expenditures for improvements at New York in 1849 embrace \$285,000 for the cost of additional ground.

## STATEMENT—Continued.

6

COST OF SITES AND IMPROVEMENT OF NAVY YARDS.

	NAVY YARD, PHILADELPHIA.					
	Pay of super- intendents.	Improvement of yard.	Dry dock, basin, &c.	Magazine.	Hospital.	Contingent, yards and docks.
For the year ending Septembsr 30, 1832.....	-----	\$7,321 17	-----	-----	-----	-----
Do.....do.....1833.....	-----	2,739 14	-----	-----	-----	-----
Do.....do.....1834.....	-----	6,377 90	-----	-----	\$41,781 93	-----
Do.....do.....1835.....	-----	2,897 96	-----	-----	9,858,53	-----
Do.....do.....1836.....	-----	7,319 59	}	-----	-----	-----
Do.....do.....1837.....	-----	36,548 49		-----	6,134 65	-----
Do.....do.....1838.....	-----	5,803 42	-----	-----	5,465 85	-----
Do.....do.....1839.....	-----	4,837 90	-----	-----	5,014 46	-----
Do.....do.....1840.....	-----	13,244 89	-----	-----	-----	-----
Do.....do.....1841.....	-----	9,026 92	-----	-----	14,631 77	-----
Do.....do.....1842.....	-----	2,096 13	-----	-----	1,766 97	-----
From October 1, 1842, to June 30, 1843.....	\$4,431 56	3,810 13	-----	-----	3,448 95	\$6,682 60
For the year ending June 30, 1844.....	7,695 87	11,992 90	-----	-----	273 11	14,300 00
Do.....do.....1845.....	7,700 00	4,463 85	-----	-----	784 61	12,005 30
Do.....do.....1846.....	7,226 49	8,920 97	-----	-----	-----	4,317 26
Do.....do.....1847.....	7,100 00	4,016 55	-----	-----	-----	7,865 96
Do.....do.....1848.....	7,100 00	29,759 96	\$6,091 61	-----	-----	16,968 64
Do.....do.....1849.....	7,099 92	22,379 76	77,706 56	-----	-----	17,342 02
Do.....do.....1850.....	8,200 00	55,989 16	353,655 51	-----	-----	17,490 21
Do.....do.....1851.....	7,200 00	41,650 43	234,785 82	-----	-----	16,331 89
Do.....do.....1852.....	9,700 00	52,969 50	159,600 84	-----	-----	13,465 08
Do.....do.....1853.....	10,514 99	34,423 08	-----	-----	4,636 98	9,421 84
Do.....do.....1854.....	11,141 16	32,418 86	-----	-----	14,457 10	13,040 81
Do.....do.....1855.....	11,660 00	54,213 94	-----	-----	8,061 95	17,550 66
Do.....do.....1856.....	11,360 00	40,303 62	-----	\$16,762 78	4,066 01	17,879 12
Do.....do.....1857.....	12,415 99	50,527 43	-----	2,918 11	8,900 28	27,171 12
Do.....do.....1858.....	11,666 00	71,519 60	-----	9,373 76	12,336 69	28,720 69
	142,151 98	617,573 25	831,840 34	29,054 65	141,619 84	240,553 20



# STATEMENT—Continued.

## NAVY YARD, WASHINGTON.

	Pay of super- intendents.	Improvement of yard.	Magazine.	Hospital.	Contingent. yards and docks.
For the year ending September 30, 1832.....		\$22,300 10			
Do.....do.....1833.....		29,122 68			
Do.....do.....1834.....		23,736 42			
Do.....do.....1835.....		22,990 69			
Do.....do.....1836.....		16,587 31			
Do.....do.....1837.....		55,959 88			
Do.....do.....1838.....		26,792 14			
Do.....do.....1839.....		39,548 40			
Do.....do.....1840.....		11,827 77			
Do.....do.....1841.....		21,686 20			
Do.....do.....1842.....		5,497 82			
From October 1, 1842, to June 30, 1843.....	\$9,504 14	17,822 79			\$32,448 18
For the year ending June 30, 1844.....	6,680 00	8,462 32	\$47 60		33,549 70
Do.....do.....1845.....	6,680 00	12,914 84	55 13		34,269 50
Do.....do.....1846.....	6,630 00	9,893 31	70 72		19,979 80
Do.....do.....1847.....	6,770 68	14,042 99	109 07		30,661 39
Do.....do.....1848.....	6,680 00	30,154 29	118 54	\$100 00	50,352 22
Do.....do.....1849.....	12,430 00	29,287 75	163 49	85 64	66,284 06
Do.....do.....1850.....	13,080 00	38,962 28	183 72	5 25	48,965 10
Do.....do.....1851.....	12,892 59	45,608 86	92 22	52 63	53,389 60
Do.....do.....1852.....	13,498 88	95,163 66	114 55	76 18	56,500 93
Do.....do.....1853.....	14,351 00	117,166 03	145 93	106 38	44,643 02
Do.....do.....1854.....	16,897 83	137,943 94	1,196 49	18 00	51,857 48
Do.....do.....1855.....	20,050 00	220,150 75	3,857 77		49,356 77
Do.....do.....1856.....	20,350 00	142,949 98	6,780 83		73,822 02
Do.....do.....1857.....	20,410 79	179,126 78	6,390 69	77 60	80,504 37
Do.....do.....1858.....	20,000 69	185,853 63	22,866 74	228 30	86,430 43
	206,906 60	1,561,553 61	42,193 49	749 98	813,019 57

## STATEMENT—Continued.

8

COST OF SITES AND IMPROVEMENT OF NAVY YARDS.

	NAVY YARD, NORFOLK.					
	Pay of superintendents.	Improvement of yard.	Dry dock.	Magazine.	Hospital.	Contingent—yards and docks.
For the year ending September 30, 1832.....		\$36,186 79	\$240,868 58		\$4,568 97	
Do.....do.....1833.....		119,375 28	115,456 08		28,497 04	
Do.....do.....1834.....		137,486 02	30,679 96		1,983 67	
Do.....do.....1835.....		75,305 26			9,016 33	
Do.....do.....1836.....		100,258 20			9,624 09	
Do.....do.....1837.....		133,544 64			16,932 84	
Do.....do.....1838.....		129,131 86			10,696 60	
Do.....do.....1839.....		95,850 73			733 26	
Do.....do.....1840.....		31,107 07			766 74	
Do.....do.....1841.....		29,507 57			5,463 13	
Do.....do.....1842.....		40,000 81			1,655 22	
From October 1, 1842, to June 30, 1843.....	\$6,940 81	33,752 70			6,976 34	\$17,595 00
For the year ending June 30, 1844.....	12,112 99	22,723 27			6,857 82	17,075 00
Do.....do.....1845.....	11,176 30	34,323 40		\$31 50	1,656 47	20,804 00
Do.....do.....1846.....	11,180 00	29,865 41		286 25	2,073 20	15,497 21
Do.....do.....1847.....	11,180 00	55,640 84		38 13	2,457 73	20,041 05
Do.....do.....1848.....	10,563 34	38,910 12			2,928 97	60,251 90
Do.....do.....1849.....	11,207 87	147,280 80		1,148 45	580 97	43,840 72
Do.....do.....1850.....	11,030 00	89,362 54		468 81	510 28	37,300 58
Do.....do.....1851.....	11,015 10	86,642 49		1,238 83	3,526 92	54,885 98
Do.....do.....1852.....	11,695 74	64,867 02			3,995 52	53,770 82
Do.....do.....1853.....	12,794 99	67,516 88			4,417 89	39,153 39
Do.....do.....1854.....	11,651 30	135,520 89			7,150 61	46,991 63
Do.....do.....1855.....	13,986 21	192,627 41			4,315 62	46,486 68
Do.....do.....1856.....	14,876 48	252,333 80		3,741 80	2,235 89	45,630 92
Do.....do.....1857.....	15,330 87	324,156 96		4,649 59	10,952 68	52,892 24
Do.....do.....1858.....	15,466 00	396,456 51		40,253 69	16,471 08	80,430 16
	192,308 90	2,899,735 27	387,004 62	51,857 05	167,045 88	652,647 28



## STATEMENT—Continued.

	NAVY YARD, PENSACOLA.					
	Pay of superintendents.	Improvement of yard.	Dry dock, basin, &c.	Magazine	Hospital.	Contingent, yards and docks
For the year ending September 30, 1832.....		\$36,277 86				
Do.....do.....1833.....		29,576 61			\$43,009 25	
Do.....do.....1834.....		4,725 38				
Do.....do.....1835.....		82,821 18				
Do.....do.....1836.....		41,553 89				
Do.....do.....1837.....		39,946 36		\$15,627 75	22,012 78	
Do.....do.....1838.....		88,461 99		3,583 69	31,785 25	
Do.....do.....1839.....		52,847 30		68 04	30,531 84	
Do.....do.....1840.....		38,704 40		417 98	797 85	
Do.....do.....1841.....		37,062 69			3,025 77	
Do.....do.....1842.....		20,389 92			9,248 62	
From October 1, 1842, to June 30, 1843.....	\$4,076 27	15,625 01			779 09	\$9,304 00
For the year ending June 30, 1844.....	5,750 00	5,033 32			3,326 11	13,800 00
Do.....do.....1845.....	7,250 00	36,352 87			1,298 35	15,305 71
Do.....do.....1846.....	10,150 00	61,608 04			20,237 63	17,613 45
Do.....do.....1847.....	8,291 82	100,905 02			23,519 86	9,593 95
Do.....do.....1848.....	7,296 85	102,563 60	\$1,092 03		20,485 18	33,967 81
Do.....do.....1849.....	8,885 03	202,950 34	109,607 39		7,325 84	31,178 05
Do.....do.....1850.....	8,977 05	212,607 66	182,581 10		5,177 01	40,552 48
Do.....do.....1851.....	9,000 00	192,413 70	203,874 89		977 10	25,010 17
Do.....do.....1852.....	12,300 00	145,933 20	184,578 90		3,116 84	26,993 11
Do.....do.....1853.....	12,299 92	111,368 25	235,997 35		11,498 54	27,509 16
Do.....do.....1854.....	13,399 91	146,855 90			13,793 88	28,550 85
Do.....do.....1855.....	12,143 86	185,891 85	11,705 00		30,685 37	24,107 96
Do.....do.....1856.....	12,321 38	199,240 12	10,000 00	8,285 97	15,085 36	34,192 51
Do.....do.....1857.....	14,986 81	148,427 02		1 050 38	11,280 11	36,386 46
Do.....do.....1858.....	16,290 33	165,890 66		107 38	9,819 11	48,702 24
	163,419 23	2,554,034 14	939,436 66	29,141 19	318,816 74	422,767 91

COST OF SITES AND IMPROVEMENT OF NAVY YARDS.

## STATEMENT—Continued.

	NAVY YARD, MARE ISLAND.					Blythe Island	Sackett's Harbor.
	Pay of superintendents.	Improvement of yard.	Dry dock, basin, &c.	Magazine.	Contingent, yards & docks.		
For the year ending September 30, 1832	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1833	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1834	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1835	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1836	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1837	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1838	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1839	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1840	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1841	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1842	-----	-----	-----	-----	-----	-----	-----
From October 1, 1842, to June 30, 1843	-----	-----	-----	-----	-----	-----	-----
For the year ending June 30, 1844	-----	-----	-----	-----	-----	-----	-----
Do.....do.....1845	-----	-----	-----	-----	-----	-----	\$726 46
Do.....do.....1846	-----	-----	-----	-----	-----	-----	3,394 79
Do.....do.....1847	-----	-----	-----	-----	-----	-----	465 81
Do.....do.....1848	-----	-----	-----	-----	-----	-----	5,057 88
Do.....do.....1849	-----	-----	-----	-----	-----	-----	2,093 22
Do.....do.....1850	-----	-----	-----	-----	-----	-----	1,824 14
Do.....do.....1851	-----	-----	-----	-----	-----	-----	739 83
Do.....do.....1852	-----	-----	\$247,050 00	-----	-----	-----	1,668 70
Do.....do.....1853	-----	*\$103,236 08	338,550 00	-----	-----	-----	1,131 32
Do.....do.....1854	\$4,135 35	-----	-----	-----	-----	-----	-----
Do.....do.....1855	4,095 58	252,594 89	270,000 00	-----	-----	-----	1,972 81
Do.....do.....1856	13,185 75	443,113 15	304,400 00	-----	\$55,214, 14	-----	271 03
Do.....do.....1857	17,221 20	173,207 68	290,000 00	\$15,798 97	69,266 46	\$85 37	708 67
Do.....do.....1858	18,117 59	396,990 46	16,576 04	70,068 49	106,666 70	†130,479 48	1,172 02
	56,755 47	1,369,142 26	1,466,576 04	85,867 46	231,147 30	130,564 85	21,226 73

NOTE.—The stone dry docks at Boston and Norfolk were commenced in 1827, and completed, the former in 1833, at a cost of \$677,089 78, and the latter in 1834, at a cost of \$974,356 69.

\* The expenditure for improvements at Mare Island in 1853 includes the cost of the site, \$83,491.

† Cost of site, \$130,000.

# RECAPITULATION.

	Portsmouth, N. H.	Boston.	New York.	Philadelphia.	Washington.	Norfolk.	Pensacola.	Mare Island.	Blythe Island.	Sackett's Harbor.	Grand aggre- gate.
For the year ending Sept. 30, 1832..	\$35,099 83	\$133,179 53	\$46,339 95	\$7,321 78	\$22,300 10	\$281,624 34	\$86,277 86	.....	.....	.....	\$612,142 78
Do.....do.....1833..	33,441 05	151,451 10	77,503 21	2,739 14	29,123 68	263,328 40	29,576 61	.....	.....	.....	587,161 19
Do.....do.....1834..	27,279 71	104,087 45	52,384 90	48,059 83	23,736 42	170,149 65	4,725 38	.....	.....	.....	430,425 31
Do.....do.....1835..	21,897 51	112,951 10	101,018 04	2,897 96	22,990 69	84,321 59	82,821 18	.....	.....	.....	431,898 07
Do.....do.....1836..	18,880 17	101,680 07	57,292 35	17,178 12	16,587 31	109,882 29	84,563 14	.....	.....	.....	406,063 45
Do.....do.....1837..	110,040 14	250,414 33	135,751 46	42,683 14	55,959 88	150,477 48	75,586 89	.....	.....	.....	820,913 32
Do.....do.....1838..	28,164 31	58,118 91	85,939 05	11,269 27	25,792 14	139,828 46	121,830 93	.....	.....	.....	473,943 08
Do.....do.....1839..	38,114 58	57,506 91	123,712 45	9,852 36	39,548 40	96,583 99	83,447 18	.....	.....	.....	418,765 87
Do.....do.....1840..	16,871 75	19,942 61	13,136 29	13,244 89	11,827 77	31,673 81	39,920 23	.....	.....	.....	146,817 35
Do.....do.....1841..	36,992 73	33,180 61	6,674 44	23,658 69	21,686 20	34,970 70	40,088 46	.....	.....	.....	197,251 83
Do.....do.....1842..	20,494 07	31,821 91	48,531 28	3,863 10	5,497 82	41,656 03	29,635 54	.....	.....	.....	181,502 75
For Oct. 1, 1842, to June 30, 1843..	58,468 45	64,524 70	7,690 31	18,373 24	59,775 11	65,254 85	29,784 37	.....	.....	.....	366,881 03
For the year ending June 30, 1844..	52,424 01	88,055 74	86,493 59	31,251 88	48,739 62	58,769 08	21,909 43	.....	.....	.....	396,653 35
Do.....do.....1845..	37,401 57	73,359 40	227,899 89	24,953 76	51,849 47	67,991 67	60,206 93	.....	.....	.....	546,359 15
Do.....do.....1846..	22,921 42	75,194 63	259,188 99	20,454 72	33,573 83	58,942 07	109,609 12	.....	.....	.....	585,549 57
Do.....do.....1847..	20,115 83	92,260 88	391,671 07	18,982 51	51,584 13	89,357 75	141,310 65	.....	.....	.....	806,748 63
Do.....do.....1848..	53,350 71	175,407 95	393,817 16	59,920 21	87,405 05	112,654 33	165,405 47	.....	.....	.....	1,053,018 76
Do.....do.....1849..	129,531 00	152,108 24	716,612 05	124,528 26	108,250 95	204,055 81	353,946 65	.....	.....	.....	1,797,129 18
Do.....do.....1850..	326,230 39	180,847 30	646,792 63	435,334 88	101,196 35	138,672 21	449,895 31	.....	.....	.....	2,320,793 20
Do.....do.....1851..	222,913 28	188,189 84	439,528 91	299,968 14	112,035 91	157,399 32	431,273 66	.....	.....	.....	1,851,991 08
Do.....do.....1852..	153,610 96	142,282 23	183,683 05	235,734 92	165,354 30	134,329 10	372,922 05	.....	.....	.....	1,636,635 21
Do.....do.....1853..	209,491 69	15,023 02	256,936 90	58,996 89	76,417 36	123,883 15	398,673 22	.....	.....	.....	1,762,339 63
Do.....do.....1854..	102,037 89	106,938 89	335,161 22	71,057 93	297,913 74	291,314 43	212,600 54	.....	.....	.....	1,921,159 99
Do.....do.....1855..	101,207 07	143,952 23	330,215 79	91,486 55	297,415 99	257,415 92	254,534 04	.....	.....	.....	2,010,920 17
Do.....do.....1856..	248,164 94	483,585 32	90,371 53	243,092 83	318,818 89	279,125 34	8,513 04	.....	.....	.....	2,567,511 37
Do.....do.....1857..	76,698 84	301,288 92	439,938 25	101,932 93	380,510 23	407,982 34	212,130 78	.....	.....	.....	2,392,768 65
Do.....do.....1858..	172,201 38	475,038 87	531,387 85	133,556 74	315,379 79	519,077 44	240,809 72	.....	.....	.....	3,157,522 57
	2,210,448 74	3,646,971 31	6,596,914 42	2,002,792 76	2,624,323 25	4,350,498 10	4,427,615 83	3,209,488 53	130,564 85	21,226 73	29,220,866 57

BUREAU OF YARDS AND DOCKS,  
February 7, 1859.

SIR: I have the honor to acknowledge the reference to this bureau, the resolution of the House of Representatives of the 15th ultimo, calling for certain information, and beg leave respectfully to report as follows, viz:

1st. "Names of the navy yards and their localities and areas."

The following table exhibits the names, localities and areas of each:

Names of yards.	Localities	Areas.
Portsmouth, New Hampshire.....	Kittery, Maine.....	63½ acres.
Boston.....	Charlestown, Massachusetts.....	80½ do.
New York.....	Brooklyn, New York.....	192 do.
Philadelphia.....	Pennsylvania.....	15½ do.
Washington.....	District of Columbia.....	41½ do.
Norfolk.....	Portsmouth, Virginia.....	79 do.
Blythe Island.....	Brunswick, Georgia.....	1,100 do.
Pensacola.....	Warrington, Florida.....	83½ do.
Mare Island.....	California.....	900 do.
Sackett's Harbor.....	Lake Ontario, New York.....	3½ do.

2d. "Outlay upon each up to the present time, including cost of sites, and the improvements thereon."

In answer to this inquiry the bureau would remark that it is not practicable to furnish a complete exhibit of the expenditures for improvements at the several navy yards.

Most of the yards were established at an early period of the government, and the appropriations for their improvement were, prior to the year 1852, for the most part, made for navy yards generally without specifying the amounts for particular yards; and in some cases embraced the pay of the civil officers of the yards also. Under the act of March 3, 1809, the accounts were kept not so as to show the *cost of objects*, but the expenditures under the specific appropriations from time to time. Since 1832 the appropriations have been made so as to allot particular amounts to the respective yards, and from that period regular accounts have been kept so as to show the expenditures upon each object of improvement. The bureau therefore submits the annexed statement, marked A, as the nearest approximation of the cost of the improvements at the several navy yards which it is now practicable to obtain.

The cost of sites is accurately known and is exhibited in statement A.

3d. "At what yards, line-of-battle-ships and frigates can be constructed, including the mean depth of water of the approaches from sea."

To the first part of this inquiry I answer; at all the navy yards except Blythe Island and Sacketts Harbor. In reply to the latter part

of the inquiry, the bureau has obtained from the Coast Survey the following information:

Names of yards.	Low water.	High water.
<i>Portsmouth, New Hampshire.</i>	<i>Feet.</i>	<i>Feet.</i>
Portsmouth, New Hampshire .....	42	50.6
<i>Boston Harbor.</i>		
In the main ship channel, between Lovels' and Gallops' island .....	28.5	38.5
Broad Sound, south channel .....	19.5	29.5
President's Roads' anchorage .....	31.5	41.5
Main ship channel, between Governors island and Castle island .....	18	28.6
<i>New York.</i>		
Gedney's channel .....	23	27.8
21 feet range .....	21	25.8
Old south channel .....	21	25.8
Swash channel .....	17	21.8
<i>Philadelphia.</i>		
Delaware bay, passing Delaware breakwater .....	61	64.5
Off Brandywine light-house .....	43	46.5
Main ship channel, abreast of Bombay Hook light .....	27.5	33.4
Up to Reedy island .....	20	26
Bar off Hog island .....	18.5	24.7
<i>Norfolk.</i>		
At entrance to Hampton Roads .....	30	32.5
Anchorage in Hampton Roads .....	59	61.5
From Hampton Roads to Sewall's .....	25	27.5
South of Sewall's .....	21	23.5
Up to Norfolk .....	23	25.5
<i>Pensacola.</i>		
Main channel .....	22.6	At mean low water.
<i>Mare island.</i>		
In mid channel .....	25	

In reference to the depth of water at the *Washington yard*, it is stated that no soundings have been made by the Coast Survey in the Potomac river. The depth found by Lieutenant Whiting on the bar south of the United States arsenal was  $13\frac{1}{2}$  feet, and that is probably the capacity of the channel now at mean low water. The rise of tide is about three feet.

The depth of the channel of Turtle river up to *Blythe island* is 21 feet at mean low water, but the depth on the bar at the entrance to St. Simons' sound, into which Turtle river empties, is only 17 feet, with a tidal rise and fall of six feet eight inches.

4th. "The character of the defences of the yards severally."

The following named fortifications defend the approaches from sea to the several navy yards, which information the bureau obtained from the engineers' office of the War Department:

## PORTSMOUTH N. H.

Fort McClary, to mount 9 guns; ready.  
Fort Constitution, to mount 46 guns; ready.

## BOSTON, MASS.

Fort Independence, to mount 127 guns; ready.  
Fort Winthrop, to mount, 78; nearly ready for armament.  
Fort Warren, to mount 309 guns; ready.

## NEW YORK.

Fort Columbus, to mount 76 guns; ready.  
Fort Williams, to mount 78 guns; ready.  
Fort South Battery, to mount 13; ready.  
Fort Gibson, to mount 12 guns; ready.  
Fort Wood, to mount 67 guns; ready.  
Fort Richmond, to mount 140 guns; nearly ready.  
Fort Thompkins; (?) just commenced.  
Battery Hudson, to mount 50 guns; ready.  
Battery Morton, to mount 10 guns; ready.  
Fort Lafayette, to mount 77 guns; ready.  
Fort Hamilton and redoubt, to mount 88 guns; ready.  
Fort Schuyler, to mount 245 guns; ready.

## PHILADELPAIA.

Fort Delaware, to mount 156 guns; ready for 91.  
Fort Mifflin, to mount 49 guns; ready.

## WASHINGTON.

Fort Washington, to mount 93 guns; ready.

## NORFOLK.

Fort Monroe, to mount 307 guns; ready.  
Fort Calhoun, to mount 216 guns; ready for none.

## PENSACOLA.

Fort Barrancas, to mount 41 guns; ready.  
Fort Pickens, to mount 199 guns; ready.  
Fort McKee, to mount 133 guns; ready for 120.  
Barrancas redoubt, to mount 16 guns; ready.



## MARE ISLAND.

Fort Point, to mount 140 guns; nearly ready.  
Alcatrazes island, to mount 94 guns; ready.

## BLYTHE ISLAND.

No fortifications as yet have been constructed.

5. "The yards at which engines, boilers, and machinery for steam frigates may now be constructed."

In reply to this question I answer, that engines, boilers, and machinery, (except for forging *large shafts*, which can be done at the Washington yard,) can be constructed at the navy yards of New York, Washington, and Norfolk; and at Boston, also, as soon as the furnaces for the foundry shall be completed.

6. "The distance of the Atlantic coast yards apart."

The distances from yard to yard is in nautical miles, and measured from the wharves of each, respectively, to sea along the usual channel way, and outside along the best sailing lines as follows, viz:

From Portsmouth to Boston, 61 miles;

From Boston to New York, inside passage, 302 miles; and outside passage, 411 miles;

From New York to Philadelphia, 238 miles;

From Philadelphia to Washington, 384 miles;

From Washington to Norfolk, 175 miles;

From Norfolk to Blythe Island, 563 miles; and

From Blythe Island to Pensacola, 1,002 miles.

7. "The number and character of the docks at which such ships as the Franklin and Niagara can be docked."

I reply, at Portsmouth, New Hampshire, which is a balance floating dock;

At Boston, which is an excavated stone dock;

At New York, which is an excavated stone dock;

At Philadelphia, which is a sectional floating dock;

At Norfolk, which is an excavated stone dock;

At Pensacola, which is a balance floating dock; and

At Mare Island, which is a sectional floating dock.

At all those the Franklin and Niagara can be docked, except at Norfolk.

At the *floating* docks, before these ships could be docked, it would be necessary to take out their batteries.

8. "Mean water at the Philadelphia dock, with annual cost of dredging."

The mean depth of water at this dock is  $35\frac{1}{4}$  feet. The depth at high water is 38 feet, and at low water  $32\frac{1}{2}$  feet.

The dredging commenced in the year 1852, and below is a statement in tabular form up to the year 1858, including the cost of the dredging machine.

For the year 1852, for dredging machine.....	\$8,500 00
For the year 1853, for labor and materials.....	4,056 13
For the year 1854, for labor and materials.....	6,349 16
For the year 1855, for labor and materials.....	8,092 09
For the year 1856, for labor and materials.....	8,098 55
For the year 1857, for labor and materials.....	10,114 79
For the year 1858, for labor and materials.....	9,892 68
Total.....	<u>55,103 40</u>

## 9. "Annual expenses classified at the several yards."

For the reasons stated in answer to the second inquiry the bureau is unable to furnish a classification of the expenditures prior to the year 1832. I therefore submit the accompanying statement, marked B, which exhibits the annual expenses for improvements of yards, magazines, and hospitals since 1832; and for "pay of superintendents" and "contingent for yards and docks" since the 1st of October, 1842, soon after the establishment of the bureaus.

The resolution is herewith returned.

I have the honor to be, very respectfully, your obedient servant,  
JOSEPH SMITH.

Hon. ISAAC TOUCEY,  
*Secretary of the Navy.*